

ABSTRACT OF THE DISCLOSURE

5 An apparatus for correcting offset includes an optical pickup
converting data recorded on an optical disc to an electrical signal; an AD
converter quantizing a reproduction signal for each clock in synchronization
with a bit period of the reproduction signal and sequentially outputting the
signal as a quantized data column for each clock; an adder adding an offset
adjustment amount to the quantized data column serving as an input signal;
a Viterbi decoder performing Viterbi decoding on the signal after offset
adjustment for binarization; and an offset correction value operating unit
10 calculating the offset adjustment amount so that a value obtained by
dividing a standard deviation of path metric difference between a survivor
path and another path merged into the survivor path in the Viterbi decoder
by an average of the path metric difference is minimized.